

Appl. No. 10/788,625
Response to Notice of Non-Compliant Amendment

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-29. (cancelled)

30. (currently amended) A method of producing a humanized chicken immunoglobulin comprising:

(a) preparing expression vectors comprising DNA ~~segments~~ encoding a heavy chain variable region of the humanized chicken immunoglobulin having complementarity determining regions (CDRs) from a donor chicken immunoglobulin and heavy chain variable region frameworks from a human acceptor immunoglobulin, and/or DNA ~~segments~~ encoding a light chain variable region of the humanized chicken immunoglobulin having complementarity determining regions (CDRs) from ~~[[the]]~~ a donor chicken immunoglobulin and light chain variable region ~~[[and]]~~ frameworks from ~~[[the]]~~ a human acceptor immunoglobulin;

(b) transforming host cells with said vector(s); and

(c) culturing said transformed host cells to produce said humanized chicken immunoglobulin,

wherein L1 and L2 of the light chain variable region frameworks from the human acceptor immunoglobulin are added to L1 and L2 of the humanized chicken immunoglobulin and L39A of the donor chicken immunoglobulin is deleted in the humanized chicken immunoglobulin, wherein amino acid numbering is according to Kabat.

31. (original) The method according to Claim 30, wherein said humanized chicken immunoglobulin comprises amino acids from the donor chicken immunoglobulin framework outside the CDRs of the humanized immunoglobulin that replace the corresponding amino acids in the acceptor immunoglobulin heavy or light chain frameworks, and each of these said donor amino acids is capable of interacting with the CDRs.

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32. (original) The method according to claim 30, wherein the amino acid of the human acceptor immunoglobulin framework is replaced by a human immunoglobulin consensus amino acid at its position, wherein the replaced amino acid is rare for human immunoglobulin sequences at its position.

33. (currently amended) The method according to claim 30, wherein a residue in at least one position selected from the group consisting of H67, H78, H93, L46, L66, and L69 of the human acceptor immunoglobulin framework is replaced, wherein amino acid numbering is according to Kabat.

34. (new) A humanized chicken immunoglobulin according to the method of claim 30.

35. (new) A humanized chicken immunoglobulin according to the method of claim 31.